

# NORMAN MANUFACTURING COMPANY

WE MAINTAIN A COMPLETE LABORATORY SERVICE

- BOILER WATER TREATMENTS
- COOLING WATER TREATMENTS
- CHEMICAL CONTROL EQUIPMENT
- CHEMICAL TESTING EQUIPMENT
- SWIMMING POOL CHEMICALS
- INHIBITED ACID CLEANERS
- SAFETY SOLVENTS

31473 Utica Road - P.O. Box 247

FRASER, MICHIGAN 48026

Phone: (313) 294-5680  
294-5681

Page 1 of 4

Product Name:

BOILER WATER TREATMENT NO. 7 PLUS  
BWT-7+

Manufacturer:

Norman Mfg. Co.

Address

31473 Utica Road

Business Telephone:

Fraser, Michigan 48026  
(313) 294-5680

Formula:

Mixture

Description:

An alkaline base material used in scale control water treatment programs in steam boiler applications.

DOT Hazard Class:

Base Material - Corrosive, UN 1823

## INGREDIENTS

	Approx. % Hazardous	Formula	CAS No.
Sodium Hydroxide	10-20%	NaOH	1310-73-2
Sodium Carbonate	N.A.	Na <sub>2</sub> CO <sub>3</sub>	497-19-3
Tannin Extracts	N.A.	Not Avail.	Not Avail.
Anionic Polyacrylamide	No Permissible Exposure Limits (PEL) established by OSHA		
		Mixture	Not Avail.
Lignosulfonate	N.A.	Not Avail.	8061-52-7
Sodium Sulfite Anhydrous	N.A.	Na <sub>2</sub> SO <sub>3</sub>	7757-83-7
Water			

## PHYSICAL DATA

Boiling Point:	212°F Approx.
Vapor Pressure:	Unknown
Vapor Density:	Unknown
Solubility:	Complete 1 part per hundred parts of water by weight.

Specific Gravity:	1.25
Percent Volatile at 70°F:	N.A.
Evaporation Rate:	Unknown
pH:	13-14
Appearance and Odor:	Dark Brown Liquid. Light industrial odor.

#### FIRE AND EXPLOSION HAZARD DATA

Flash Point:	N.A.
Flammable Limits:	N.A.
Extinguishing Media:	Not Flammable
Special Fire Fighting Procedure:	None
Unusual Fire and Explosion Hazards:	In closed containers, pressure may be allowed to build. Always handle closed containers with care and remove closure fittings slowly when opening.

#### HEALTH HAZARD DATA

Threshold Limit Value:	Unknown
Effects of Overexposure:	Irritation may result from inhalation. Irritation and/or burning can occur when product comes in contact with skin or eyes.

**Emergency First Aid Procedures:**

- Irritation due to inhalation - remove victim to fresh air.
- Skin - Wash area with ample amounts of fresh water. Seek medical attention if irritation persists.
- Eyes - Flush with large quantities of fresh water and seek medical attention.
- Ingestion - Seek immediate medical attention. Give 2-3 glasses of fresh water. Do not induce vomiting. Never give anything by mouth to an unconscious person.

#### REACTIVITY DATA

Stability:	Stable
Incompatibility (Conditions to Avoid):	Acids will release CO <sub>2</sub> gas

Hazardous Decomposition Products: Carbon Dioxide gas.  
Hazardous Ploymerization: Will not occur.

---

#### SPILL OR LEAK PROCEDURES

---

Steps to be Taken in Case Material  
is Released or Spilled:

Flush area with water. Dilute acid, preferably acetic acid, may be used to neutralize final traces of caustic after flushing. Sweep area with suitable absorbant material.

Waste Disposal Method:

Always dispose of in accordance with federal, state, and local ordinances.

In most instances, small spills may be discharged to sewage drains with ample amounts of fresh water dilution.

---

#### SPECIAL PROTECTION INFORMATION

---

Respiratory Protection:

Not necessary unless light odor is irritant to handler.

Ventilation:

N.A.

Protective Gloves:

Rubber or Polyvinylchloride type recommended and should be worn at all times.

Eye Protection:

Splash goggles and face shield recommended and should be worn at all times.

Other Protective Equipment:

None. Avoid contact with clothing.

---

#### SPECIAL PRECAUTIONS

---

Precautions to be Taken in  
Handling and Storing:

Avoid splashing and splattering. Keep from freezing.

Other Precautions:

Avoid storing where contact with acid is likely.

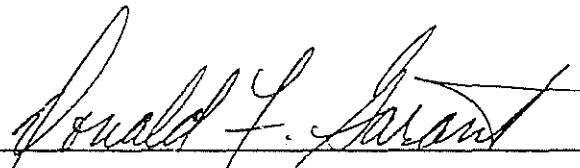
---

---

Although the information contained in the previous paged is supplied in good faith and is believed to be correct as of the date noted below, Norman Mfg. Co. makes no assurance regarding the accuracy or completeness of information and recommendations. No warranties, either express or implied, regarding this product and/or information, and application for a particular purpose are made.

---

Date: 01/21/87



---

Donald F. Garant

Norman Mfg. Co.  
31473 Utica Rd.  
Fraser, MI 48026